

C L A I M S

1. Server system having a Portal server and a communication link to Mobile Devices having a disconnected Portal, a Deployment Registry, and a Synchronization Engine, wherein said Portal server is characterized by the further components:

a Topology Manager (40) which provides means to automatically create a Mobile Device specific content topology for a disconnected Mobile Portal at said Server system,

Dynamic Information Manager (30) which provides means to access dynamic information and to provide said dynamic information to said Topology Manager in order to adapt an existing user-defined connected content topology to a Mobile Device specific environment resulting in a Mobile Device specific content topology,

a Migration Manager (50) which provides means to package said Mobile Device specific content topology for said disconnected Mobile Portal including disconnected Portlet applications assigned to said Mobile Device specific content topology, and the Portlet data to be rendered by said disconnected Portlet applications,

a Synchronization Engine (80) to synchronize the data between said server and said Mobile Device.

2. Server according to claim 1, wherein said Topology Manager (40) having access to an user-disconnected profile Database, wherein each user-disconnected profile is defined by a user profile identification, a selected target Mobile Device, selected disconnected Portlet applications to be used by the

disconnected target Mobile Portal, and the associated dynamic information.

3. Server according to claim 1, wherein said user-defined disconnected profile is created by a user profile manager (29).

4. Server according to 2, wherein said user profile manager (29) provides a graphical user interface to support the selection of the available Portlets.

5. Server according to claim 1, wherein said Dynamic Information Manager (30) having access to a Database which stores the dynamic information (33).

6. Server according to claim 5, wherein said dynamic information includes communication link capabilities, Mobile Device capabilities, and Mobile Device location information.

7. Server according to claim 4, wherein said Topology Manager (40) creates a Mobile Device specific content topology at the server side by using the information defined by said user-defined disconnected profile.

8. Server according to claim 7, wherein information specified by said user-defined disconnected profile is sent to said Mobile Device (1) in a single file.

9. Server according to claim 8, wherein said Migration Manager (50) creates a XML file including said Mobile Device specific content topology, a WAR file for said disconnected Portlet applications with their deployment descriptors, and said Portlet data to be rendered by said disconnected Portlets.

10. Server according to claim 9, wherein said disconnected Portlet applications (5) are light-weight version of connected Portlets.

11. Server according to claim 1, further comprising a disconnection Portlet (27) allowing to switch from the connected mode into the disconnected mode.

12. Server according to claim 11, wherein said disconnection Portlet is displayed in each Portal page.

13. Mobile Device having a communication link to a server system having a Topology Manager (40) which provides means to create Mobile Device specific content topology for a disconnected Mobile Portal at said Server system side, Dynamic Information Manager (30) which provides means to access dynamic information and to provide said dynamic information to said Topology Manager in order to adapt an existing user-defined connected content topology to a resulting Mobile Device specific content topology for a target Mobile Device specific environment, a Migration Manager (50) which provides means to package said Mobile Device specific content topology for said disconnected Mobile Portal including its disconnected Portlet applications assigned to said Mobile Device specific content topology, and the Portlet data to be rendered by said disconnected Portlet applications (user disconnection profile), a Synchronization Engine (80) to synchronize the data between said server and said Mobile Device, wherein said Mobile Device (1) is characterized by the further components:

a disconnected Portal framework (70),

disconnected Portlets (5) being provided by said Portal server,

a Deployment Registry (90) for deploying and registering the disconnected Portlets being provided by said Portal server,

a Synchronization Engine (76) for receiving the disconnected Portlet applications and Mobile Device specific content topology and for sending and receiving the data to be rendered by said Portlet applications.

14. Mobile Device according to claim 13, further comprising

a Database (31) for storing the Mobile Device specific content topology and the data to be rendered by said Portlet applications,

a Migration Manager (82) for keeping track of the changes between said Mobile Device and said Server System and triggering the synchronization.

15. Mobile Device according to claim 14, further comprising a disconnection Portlet (72) allowing to switch from the disconnected mode into the connected mode.

17. Mobile Device according to claim 13, wherein said disconnected Portal framework 70 comprises a disconnected Portal servlet, an embedded aggregator, and an embedded Portlet container, wherein all components are adapted to the Mobile Device specific environment.

18. Portal server comprising

a disconnection Portlet (27) which provides means to allow the user to go disconnected,

connected Portlets (5) with their assigned disconnected Portlets designed for running on Mobile Devices,

an user profile manager (29) allowing creation of user-defined disconnection profile,

a Migration Manager (50) which provides means to integrate changes in an user-defined disconnection profile and means to create a file to be sent to the target Mobile Device,

a Topology Manager (40) which provides means to create Mobile Device specific content topology for the disconnected Portal based on information from the user-defined disconnection profile,

a Dynamic Information Manager (30) which provides means to support the Topology Manager (40) with dynamic information to adapt an existing user-defined connected content topology to a resulting Mobile Device specific content topology for a target Mobile Device specific environment by using communication link capabilities, Mobile Device capabilities and Mobile Device location information,

a synchronization server and a Synchronization Engine (80) to synchronize the data between the Portal server disconnected Portlets and the Mobile Device disconnected Portlets.

19. Method for creating a Mobile Device specific content topology at said Server side, comprising the steps of:

initiating a switch at the server side from the connected to the disconnected mode between said Portal Server and said Mobile Device,

selecting available disconnected Portlet applications to be replicated to said Mobile Device,

creating a Mobile Device specific content topology based on an existing user-defined connected content topology including said selected disconnected Portlet applications and dynamic information upon channel capabilities, target Mobile Device capabilities, and location information of said target Mobile Device,

packaging said Mobile Device specific content topology including said selected disconnected Portlet applications assigned to it and said data to be rendered by said selected Portlet application,

transferring said Mobile Device specific content topology including said selected disconnected Portlet applications assigned to it, and said data to be rendered by said selected Portlet application to said target Mobile Device.

20. Method according to claim 19, wherein said disconnection mode is accomplished by a disconnection Portlet.

21. Method according to claim 19, wherein said disconnection Portlet is added by default to all Portal pages.

22. Method according to claim 21, said disconnection Portlet presents a graphical user interface allowing to select the Portlet application to be replicated and the target Mobile Device.

23. Method according to claim 19, wherein said selecting step further comprising the steps of:

determining the availability of said selected disconnected Portlet applications for the target Mobile Device,

removing non-available Portlet applications from said existing user-defined connected content topology.

24. Method according to claim 23, wherein no-available Portlet applications are replaced by static placeholders.

25. Method according to claim 19, wherein each change of the data belonging to the Mobile Device specific content topology stored at the server side or at the Mobile Device side is synchronized during the connected mode.

26. Computer program product stored in the internal memory of a digital computer, containing parts of software code to execute the method in accordance with claims 19 to 25 if the product is run on the computer.